## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS:

- 1. (withdrawn) A device for separating cells using an antibody selected from a chimera antibody, a single chain antibody or combinations thereof.
- 2. (currently amended) A device for separating CD4-positive cells, using comprising:

an antibody selected from the group consisting of a chimera antibody, a single chain antibody which and combinations thereof, wherein said antibody binds to CD4 molecules, or combinations thereof and wherein said antibody is bound to a water-insoluble carrier in the form of fiber.

3. (currently amended) A device for separating CD4-positive cells, using comprising a chimera antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 1 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 2 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 3 in the Sequence Listing, an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 4 in the Sequence

Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 5 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 6 in the Sequence Listing, and an Fc region of a human type, and wherein said chimera antibody is bound to a water-insoluble carrier in the form of fiber.

- 4. (currently amended) A device for separating CD4-positive cells, using comprising a single chain antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 1 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID NO. 2 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 3 in the Sequence Listing, and an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 4 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 5 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 6 in the Sequence Listing, and wherein said single chain antibody is bound to a water-insoluble carrier in the form of fiber.
- 5. (withdrawn) A device for separating CD34-positive cells using an antibody selected from a chimera antibody, a single chain antibody which binds to CD34 molecules or combinations thereof.

- 6. (withdrawn) A device for separating human CD34-positive cells using a chimera antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 43 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 44 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 45 in the Sequence Listing, an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 46 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence represented by Sequence ID No. 47 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 48 in the Sequence Listing, and an Fc region of a human type.
- 7. (withdrawn) A device for separating human CD34-positive cells using a single chain antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 43 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 44 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 45 in the Sequence Listing, and an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 46 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 47 in the Sequence Listing, and CDR-3 is an amino

acid sequence represented by Sequence ID No. 48 in the Sequence Listing.

- 8. (withdrawn) The device for separating cells according to claim 1, wherein the antibody comprises an amino acid sequence containing a basic amino acid or acidic amino acid added to the C-terminal or N-terminal or both of the amino acid sequence of the antibody.
- 9. (withdrawn) The device for separating cells according to claim 1, wherein the antibody selected from a chimera antibody, a single chain antibody or combinations thereof is bound to an active group of a polypropylene nonwoven fabric reacted with a haloacetaminomethylating agent.
- 10. (withdrawn) A method for separating or detecting cells, comprising using an antibody selected from a chimera antibody, a single chain antibody or combinations thereof.
- 11. (currently amended) A method for separating or detecting human CD4-positive cells, comprising using an antibody selected from the group consisting of a chimera antibody, a single chain antibody, and combinations thereof, wherein said antibody is bound to a water-insoluble carrier in the form of fiber directly or indirectly, comprising:

contacting a cell suspension comprising CD4-positive cells with said water-insoluble carrier,

separating said cell suspension and said carrier, and

obtaining said water-insoluble carrier which is bound to CD4-positive cells on said cell surface

selected from a chimera antibody, a single chain antibody which bind to CD 4 molecules or molecules, or combinations thereof.

detecting human CD4-positive cells, comprising using a chimera antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 1 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence represented by Sequence ID No. 2 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 3 in the Sequence Listing, an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 4 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence represented by Sequence ID No. 5 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 6 in the Sequence Listing, and an Fc region of a human type, comprising:

contacting a cell suspension comprising CD4-positive cells with said water-insoluble carrier,

separating said cell suspension and said carrier, and obtaining said water-insoluble carrier which is bound to CD4-positive cells on said cell surface.

detecting human CD4-positive cells, comprising using a single chain antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 1 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence represented by Sequence ID No. 2 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 3 in the Sequence Listing, and an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 4 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 5 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 6 in the Sequence Listing, comprising:

contacting a cell suspension comprising CD4-positive cells with said water-insoluble carrier,

separating said cell suspension and said carrier, and obtaining said water-insoluble carrier which is bound to CD4-positive cells on said cell surface.

- 14. (withdrawn) A method for separating or detecting human CD34-positive cells, comprising using an antibody selected from a chimera antibody, a single chain antibody which bind to CD34 molecules or combinations thereof.
- 15. (withdrawn) A method for separating or detecting human CD34-positive cells, comprising using a chimera antibody,

wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 43 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 44 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 45 in the Sequence Listing, an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 46 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 47 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence ID No. 48 in the Sequence Listing, and an Fc region of a human type.

human CD34-positive cells, comprising using a chain strand antibody, wherein the antibody comprises an H chain variable region of which CDR-1 is an amino acid sequence represented by Sequence ID No. 43 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 44 in the Sequence Listing, and CDR-3 is an amino acid sequence represented by Sequence Listing, and an L chain variable region of which CDR-1 is an amino acid sequence represented by Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 46 in the Sequence Listing, CDR-2 is an amino acid sequence represented by Sequence ID No. 48 in the Sequence Listing.

- 17. (withdrawn) The method for separating or detecting cells according to claim 10, wherein the antibody comprises an amino acid sequence containing a basic amino acid or acidic amino acid added to the C-terminal or N-terminal or both of the amino acid sequence of the antibody.
- 18. (withdrawn) An antibody comprising an H chain variable region of which CDR-1, CDR-2, and CDR-3 are amino acid sequences described in Sequence ID Nos. 1, 2, and 3, respectively, in the Sequence Listing and having affinity for CD4 antigen.
- 19. (withdrawn) An antibody comprising an L chain variable region of which CDR-1, CDR-2, and CDR-3 are amino acid sequences described in Sequence ID Nos. 4, 5, and 6, respectively, in the Sequence Listing and having affinity for CD4 antigen.
- 20. (withdrawn) A monoclonal antibody to CD4 antigen, produced by hybridoma 4H5 having a depository accession number FERM BP-6729.
- 21. (withdrawn) A nucleic acid encoding the antibody according to claim 18.
- 22. (withdrawn) The nucleic acid according to claim 21, containing the nucleotide sequences described in Sequence ID Nos. 7 and 8.

- 23. (withdrawn) A method for producing antibodies using the nucleic acid according to claim 21.
- 24. (withdrawn) A recombinant antibody which can be obtained by the method according to claim 23 and which has affinity for CD4 antigen.
- 25. (withdrawn) The recombinant antibody according to claim 24, wherein the antibody has an Fc region of a human type.
- 26. (withdrawn) The recombinant antibody according to claim 24, wherein the antibody is a single chain antibody.
- 27. (withdrawn) A medicinal composition comprising the antibody according to claim 18 and a pharmaceutically acceptable carrier.
- 28. (withdrawn) A medicinal composition comprising the recombinant antibody according to claim 24 and a pharmaceutically acceptable carrier.
- 29. (previously presented) The device for separating cells according to claim 2, wherein the antibody comprises an amino acid sequence containing a basic amino acid or acidic amino acid added to the C-terminal or N-terminal or both of the amino acid sequence of the antibody.
- 30. (currently amended) The device for separating cells according to claim 2, wherein the antibody selected from the group consisting of a chimera antibody, a single chain antibody, or and combinations thereof is bound to an active group

of a polypropylene nonwoven fabric reacted with a haloacetaminomethylating agent.

- 31. (previously presented) The device for separating cells according to claim 3, wherein the antibody comprises an amino acid sequence containing a basic amino acid or acidic amino acid added to the C-terminal or N-terminal or both of the amino acid sequence of the antibody.
- 32. (currently amended) The device for separating cells according to claim 3, wherein the antibody selected from a chimera antibody, a single chain antibody or combinations thereof is bound to an active group of a polypropylene nonwoven fabric reacted with a haloacetaminomethylating agent.
- 33. (previously presented) The device for separating cells according to claim 4, wherein the antibody comprises an amino acid sequence containing a basic amino acid or acidic amino acid added to the C-terminal or N-terminal or both of the amino acid sequence of the antibody.
- 34. (currently amended) The device for separating cells according to claim 4, wherein the antibody selected from a chimera antibody, a single chain antibody or combinations thereof is bound to an active group of a polypropylene nonwoven fabric reacted with a haloacetaminomethylating agent.